The Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey: Southeastern Region Results



THE MICHIGAN SUBSTANCE ABUSE RISK AND PROTECTIVE FACTORS 2000/2001 STUDENT SURVEY: SOUTHEASTERN REGION RESULTS

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1. INTRODUCTION AND METHODOLOGY

In order to estimate the number and characteristics of middle and high school students in Michigan who are at elevated risk of alcohol, tobacco, and other drug use and related problems, or who are already substance users, the Michigan Department of Community Health (MDCH), Division of Mental Health Quality and Planning (DMHQP), with assistance from Research Triangle Institute (RTI), conducted the Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey. This survey was funded by the Center for Substance Abuse Prevention (CSAP) as part of Michigan's Prevention Needs Assessment Project.

During the 2000 - 2001 school year, school staff administered the Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey to over 9,000 students in grades 6, 8, 10, and 12, in 73 schools across Michigan.

To present the data and information from this study in a meaningful manner, we prepared an individual report for each of the seven regions in Michigan. Because of the small number of private school students participating in the survey, each regional report focuses on the findings from data collected from public school students. This report presents the results of the public school survey in the Southeastern region and is divided into four chapters. The remaining sections of this chapter provide information on study methodology and response rates. The second chapter provides prevalence estimates of Southeastern region public school students' use of tobacco, alcohol, and other drugs, as well as estimates of delinquent behavior. It should be noted that where estimates are compared in this report, no formal statistical analyses have been conducted. Chapter 3 provides findings about community, school, family, and peer-individual risk factors associated with students' substance use, and Chapter 4 summarizes the key study findings. In addition, the instrument and data collection materials are provided in the appendix.

1.4 Methodology

The Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey was adapted from the Student Survey of Risk and Protective Factors and Prevalence of Alcohol, Tobacco, and other Drug Use, developed by the Social Development Research Group (SDRG) at the University of Washington and used in many other states. The survey was printed on an electronically scannable form. To protect student privacy, the questionnaire was anonymous. It is therefore impossible to identify an individual student's responses. District and school recruitment was conducted by staff of MDCH. Participation by schools and students was completely voluntary. Parental consent was obtained prior to survey administration by using either active or passive consent procedures. Participating schools were provided all the necessary materials for administering the survey. A designated survey coordinator at each school distributed and collected survey materials and sent the completed surveys back to RTI via

Federal Express. A thank you letter was sent by MDCH to participating school superintendents, principals, and teachers expressing appreciation to all involved in the survey. The letter provided instructions on how to receive the incentive for participating.

Because this research effort involved data collection directly from minors, it involved review of the study design and all school and parental consent forms and procedures by the MDCH Human Subjects Committee. Approval was granted as required before data collection began.

1.2 Response Rates

The following information is for the **Southeastern region** and is based on the surveys completed by participating students in grades 6, 8, 10, and 12. **Exhibit 1.1** displays the planning regions in the state. **Exhibit 1.2** shows that 15 schools were sampled from the Southeastern region with 11 schools eligible to participate. Schools were eligible if they included a 6th, 8th, 10th, and/or 12th grade. Of the 11 eligible schools, 8 participated in the survey for an overall school response rate of 62 percent. The school response rate in the Southeastern region was slightly lower than the statewide public school response rate of 69 percent. Within the 8 participating Southeastern region public schools, 16 6th grade, 43 8th grade, 37 10th grade, and 21 12th grade classes completed the survey.

A total of 2,576 Southeastern region public school students were sampled, but 30 of these students were ineligible to participate because they were not in the 6th, 8th, 10th, or 12th grade (**Exhibit 1.2**). In addition, 75 eligible students did not participate because their parents/guardians objected to their participation, 85 eligible students refused to participate, and 317 were absent on the day of survey administration. Of the completed surveys, 70 were unusable due to careless, invalid, or logically inconsistent responses. As a result, there were 1,999 valid surveys, including 270 6th grade surveys, 783 8th grade surveys, 525 10th grade surveys, and 421 12th grade surveys. The overall student response rate for the Southeastern region was 79 percent. The student response rate in the Southeastern region was similar to the statewide public school student response rate of 78 percent.

Taking into consideration both the school and student response rates [school response rate*student response rate/100], **Exhibit 1.2** shows the overall response rate for the Southeastern region was 49 percent. The overall response rate for public schools in the Southeastern region was lower than the overall statewide public school response rate of 54 percent.

1.3 Using the Survey Results

Results from the Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey provide important information that can be used to help detect current patterns of risk factors among students. It can help you:

! identify differences by grade and gender,

Exhibit 1.1 Michigan Department of Community Health Substance Abuse Planning Regions by County

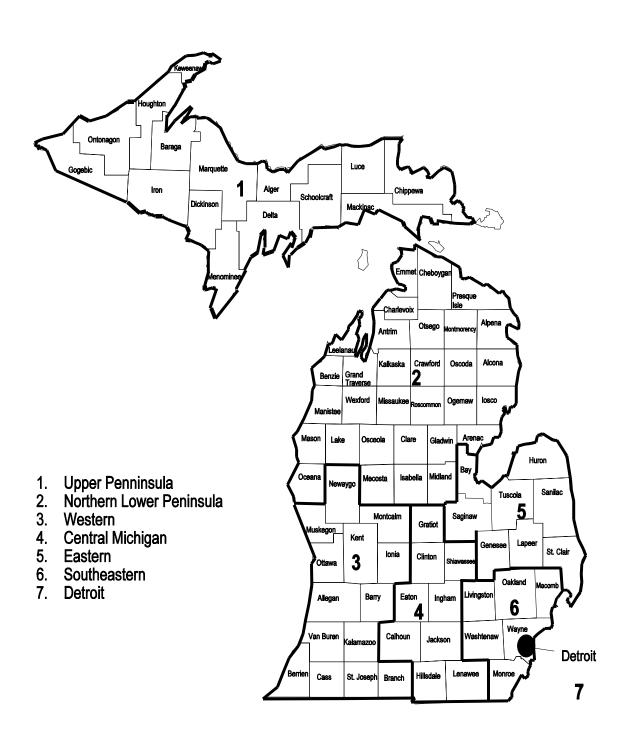


Exhibit 1.2 School and Student Response Rates for Public Schools in the Southeastern Region

	Southeastern Region	Statewide
School:		
# Schools Sampled	15	95
# Schools Eligible	11	84
# Schools Participating	8	58
Response Rate ¹	62%	69%
Classes:		
# 6 th Grades Participating	16	78
#8th Grades Participating	43	128
# 10th Grades Participating	37	104
# 12 th Grades Participating	21	77
Student:		
# Students Sampled	2,576	11,822
# Students Eligible ²	2,546	11,442
# Parental Refusals	75	284
# Student Refusals	85	302
# Absent	317	1558
# Discarded Surveys ³	70	386
# Valid Surveys	1,999	8,912
# 6 th Grade Surveys	270	1,729
# 8 th Grade Surveys	783	2,578
# 10 th Grade Surveys	525	2,548
# 12th Grade Surveys	421	2,057
Response Rate ⁴	79%	78%
Overall: Response Rate ⁵	49%	54%

¹ School response rate is calculated by dividing the number of participating schools by the number of eligible schools.

 $^{^{2}}$ Students in grades 7, 9, and 11 who completed the survey were ineligible for the survey and are therefore excluded from analysis and response rate calculations.

³ Includes surveys in which responses were deemed dishonest or unreliable.

⁴ Student response rate is calculated by dividing the number of valid surveys by the number of eligible students.

⁵ The overall response rate is calculated by multiplying the school and student response rates.

- ! target prevention efforts to specific groups of students, and
- ! suggest whether or not policies and programs are having their intended effect on student behaviors.

The results can be used as a tool for starting discussions, educating the community, and planning and evaluating programs.

- ! Starting the Conversation: Use the survey findings to begin a conversation with young people about the personal choices they make or about the health of their community. Ask them if the results accurately reflect what they see happening around them. How do they explain the results? What ideas do they have about ways to promote healthy behaviors? From their perspective, what seems to be working and what is not working?
- ! Increasing Awareness: The Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey provides an opportunity to break through "denial" about some students' participation in risky behaviors, and to make community members aware of the risks that their young people face. It can also dispel myths and correct misinformation about the average teen. The survey can be used to accentuate the positive and to celebrate the fact that many students are abstaining from behaviors which endanger their health and their ability to succeed.
- Planning and Evaluating Programs: The Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey can serve as the basis of a regional needs assessment. It can help identify both strengths and areas for improvement in your region. It can even suggest strategies to address those challenges.

1.4 Limitations of the Survey

While the Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey represents the most complete and most recent information available about risk behaviors among students in your region, like all surveys it has some limitations that you should keep in mind when interpreting the results.

! Sampling and Data Quality: This report is based on all the students who completed the survey in the Southeastern region. Some students were absent on the day the survey was administered, and other students declined to participate or incorrectly completed the survey. It is likely that the results are representative of the student population in your region, but we cannot be sure. To minimize the chances of poor data quality, several precautions were taken to ensure the reliability and validity of the results. First, the questionnaire has been carefully designed and thoroughly tested by SDRG. Second, the survey was anonymous to encourage students to be honest and forthright. Third, several consistency checks

were run on the data to exclude careless, invalid, or logically inconsistent answers. These precautions can reduce most, but not all, sources of error.

! What, not Why: The Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey can indicate what students are doing. It also can suggest the groups of students who are more likely to engage in these behaviors, which can aid in designing prevention programs targeted at the students most at risk. However, the survey does not address another important piece of the puzzle: Why are students engaging in these behaviors? That question is beyond the scope of this report.

1.5 Understanding this Report

The results of the Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey are presented as data Exhibits. All results are expressed as percentages of students who made the responses being reported. Some percentages may not sum to 100 percent due to rounding.

Please note that we encourage you to examine not only the areas for improvement identified in this survey, but also the regional strengths that are revealed. That is, in most cases the majority of adolescents are NOT engaging in risky behaviors. Although most of the Exhibits are oriented to examining the prevalence of risk behaviors, please do not forget about the percent of adolescents in the Southeastern region who are NOT engaging in the behavior.

2. PREVALENCE OF SUBSTANCE USE AND DELINQUENT BEHAVIOR AMONG MICHIGAN PUBLIC SCHOOL STUDENTS IN THE SOUTHEASTERN REGION

This chapter presents information about the use of tobacco, alcohol, and other drugs (ATOD) and participation in delinquent behavior among 6th, 8th, 10th, and 12th grade public school students in the Southeastern region of Michigan. To determine the characteristics of students who engage in these behaviors, this chapter presents prevalence estimates separately by students' gender, race/ethnicity, and grade in school whenever the data permit. The available demographic information may be useful in helping to identify groups for targeted prevention efforts. It should be noted that for some demographic subgroups either the number of students in the Southeastern region was too small or the prevalence of some behaviors was too low to obtain a reliable estimate. In addition to presenting information about the Southeastern region, where possible results from the region are compared to the state average to indicate areas that may be of special concern. As noted in Chapter 1, comparisons in this report refer to apparent differences only, and no statistical calculations have been performed.

2.1 Tobacco

2.1.1 Lifetime Tobacco Use

As shown in **Exhibit 2.1**, about 36 percent of Michigan public school students in the Southeastern region had ever used tobacco (i.e., either cigarettes or smokeless tobacco). Females (37%) were slightly more likely to have used tobacco than were males (35%). More Caucasian students (37%) had used tobacco than students of non-Caucasian, non-African-American races/ethnicities (25%). In addition, higher grade levels were associated with an increased prevalence of tobacco use. The highest prevalence rate (61%) occurred for students in 12th grade; use was intermediate among 10th grade students (55%) and lowest among 8th graders (28%). No reliable estimate was available for 6th graders.

The overall level of lifetime tobacco use in the Southeastern region was somewhat lower than the statewide average of 41 percent. This difference applied to both males (41% state, 35% Southeastern region) and females (42% state, 37% Southeastern region). Both Caucasian and non-Caucasian, non-African-American students in the Southeastern region had used tobacco less than those across the state. As in the Southeastern region, in the state as a whole more students in higher grades had used tobacco compared to students in lower grades. One interesting difference between the region and the state was the lower likelihood of tobacco use among Southeastern region 8th graders (28%) compared to those across the state (38%).

Exhibit 2.1 Prevalence of Tobacco Use in the Lifetime and Past Month Among Public School Students in the Southeastern Region and the State, by Selected Demographic Characteristics: 2000/2001

	Lifet	ime	Past Month		
Demographic Characteristic	Region	State	Region	State	
Total	35.9	41.4	19.4	19.2	
Gender					
Male	35.1	41.2	19.3	19.7	
Female	36.6	41.9	19.5	18.9	
Race/Ethnicity					
Caucasian	37.3	43.4	20.7	21.4	
African-American	+	35.5	+	9.8	
Other races ¹	25.2	34.2	11.3	15.5	
Grade in School					
$6^{ m th}$	+	12.6	+	2.3	
8 th	28.2	38.0	11.6	14.0	
$10^{ m th}$	54.9	54.6	30.4	27.6	
12 th	61.3	65.1	37.8	36.5	

⁺ Estimate suppressed because of low precision.

¹ Includes Hispanics or Latinos, American Indians or Alaskan Natives, Asians, Native Hawaiians or other Pacific Islanders, or Arab Americans or Chaldeans.

2.1.2 Past-Month Tobacco Use

Approximately 19 percent of students in the Southeastern region had used tobacco in the 30 days prior to the survey (i.e., they were current tobacco users) (**Exhibit 2.1**). Males and females were about equally likely to be current tobacco users (19% of males, 20% of females). Current tobacco use was more common among Caucasian students (21%) than among non-Caucasian, non-African-American students (11%). Although estimates for past month tobacco use were unreliable for 6th graders, use was more common among seniors (39%) than among sophomores (30%) or 8th graders (12%).

The statewide prevalence of past month tobacco use (19%) was the same as the prevalence in the Southeastern region. Where comparisons among demographic groups were possible, groups in the Southeastern region generally were not drastically different than those across the state. The largest difference was observed for non-Caucasian, non-African-American students, among whom current tobacco use was less common in the Southeastern region (11%) than across the state (16%).

2.2 Alcohol

2.2.1 Lifetime Alcohol Use

To assess lifetime alcohol use, students were asked whether they had ever had a drink of alcohol in their life, beyond just a few sips. **Exhibit 2.2** shows that 53 percent of the students in the Southeastern region reported lifetime use of alcohol. An examination of demographic differences in the Southeastern region showed that males and females were about equally likely ever to have used alcohol. Caucasian students (55%) were much more likely to have used alcohol than non-Caucasian, non-African-American students (39%). We also found a notable increase in lifetime alcohol use as students' grade in school increased. Between 6th grade and 8th grade, prevalence increased from 14 percent to 47 percent. Another large increase was seen among 10th graders (74%), and a smaller increase among 12th graders (81%). It is notable that more than 80 percent of students in the Southeastern region had used alcohol by their senior year.

The prevalence of lifetime alcohol use by students in the Southeastern region is similar to the statewide average of 54 percent. Comparing lifetime alcohol use among demographic subgroups, we found that Southeastern region's non-Caucasian, non-African-American students (39%) were less likely to have used alcohol than those across the state (46%). Similarly, use was less common among 6th graders in the Southeastern region (14%) than across the state (19%).

Exhibit 2.2 Prevalence of Alcohol Use in the Lifetime and Past Month Among Public School Students in the Southeastern Region and the State, by Selected Demographic Characteristics: 2000/2001

	Lifet	ime	Past Month		
Demographic Characteristic	Region	State	Region	State	
Total	52.6	54.4	31.2	31.0	
Gender					
Male	52.4	54.6	31.1	31.3	
Female	52.5	54.4	30.9	30.7	
Race/Ethnicity					
Caucasian	54.9	57.4	33.3	33.9	
African-American	+	45.8	+	20.6	
Other races ¹	39.3	46.3	21.1	24.5	
Grade in School					
$6^{ m th}$	13.6	19.3	+	5.7	
8 th	46.7	50.6	22.6	25.0	
$10^{ m th}$	73.7	71.5	46.9	43.6	
12 th	81.4	80.9	55.9	54.1	

⁺ Estimate suppressed because of low precision.

¹ Includes Hispanics or Latinos, American Indians or Alaskan Natives, Asians, Native Hawaiians or other Pacific Islanders, or Arab Americans or Chaldeans.

2.2.2 Past-Month Alcohol Use

As shown in **Exhibit 2.2**, 31 percent of public school students in the Southeastern region had consumed at least one drink in the month prior to the 2000/2001 survey (i.e., currently used alcohol). There was no difference based on gender. As was the case with lifetime alcohol use, Caucasian students (33%) were more likely to be current alcohol users than non-Caucasian, non-African-American students (21%). Rates for current use also increased with students' grade, from 23 percent of 8th graders, to 47 percent of 10th graders, to 56 percent of 12th graders.

When compared to the state as a whole, the overall prevalence of past month alcohol use by students in the Southeastern region was the same (31%). The demographic subgroups of the Southeastern region also were similar to their counterparts at the state level. The largest difference was among non-Caucasian, non-African-American students; those in the Southeastern region were somewhat less likely to be current alcohol users than those across the state (21% vs. 25%).

2.3 Other Drugs

2.3.1 Lifetime Other Drug Use

Illicit drug use was less prevalent than alcohol or tobacco use among Southeastern region's public school students. Approximately 32 percent of students in the Southeastern region reported having used at least one illicit drug in their lifetime (**Exhibit 2.3**). Somewhat more males than females reported use (34% of males, 31% of females). More Caucasian students (33%) than non-Caucasian, non-African-American students (22%) had used illicit drugs. There was a marked difference between 8th graders (25%) and 10th graders (44%). Use was most common among 12th graders (52%).

Similar to the Southeastern region, in the state as a whole one-third of students reported use of illicit drugs in their lifetime. Differences between demographic subgroups in the Southeastern region compared to the state were not large.

We also examined what types of illicit drugs were being used by Michigan's public school students (**Exhibit 2.4**). The most frequently used illicit drug in the Southeastern region was marijuana (23%), followed by inhalants (14%), designer drugs (6%), LSD or other psychedelics (5%), speed or amphetamines (5%), tranquilizers (5%), cocaine (4%), and barbiturates (3%). These findings are similar to those reported across the state.

Exhibit 2.3 Prevalence of Illicit Drug Use in the Lifetime and Past Month Among Public School Students in the Southeastern Region and the State, by Selected Demographic Characteristics: 2000/2001

	Life	time	Past Month			
Demographic Characteristic	Region	State	Region	State		
Total	32.1	33.3	17.4	17.2		
Gender						
Male	34.0	35.2	18.4	18.6		
Female	30.6	31.7	16.4	16.0		
Race/Ethnicity						
Caucasian	33.3	34.1	18.1	17.8		
African-American	+	32.2	+	15.4		
Other races ¹	22.0	29.5	13.2	15.9		
Grade in School						
$6^{ ext{th}}$	+	10.8	+	3.2		
$8^{ m th}$	25.3	30.2	12.7	15.5		
10^{th}	44.3	42.7	27.8	24.7		
12 th	52.2	51.7	28.5	26.1		

⁺ Estimate suppressed because of low precision.

Note: Illicit Drug Use includes use of marijuana, inhalants, cocaine, LSD or other psychedelics, speed or amphetamines, or other illegal drugs.

¹Includes Hispanics or Latinos, American Indians or Alaskan Natives, Asians, Native Hawaiians or other Pacific Islanders, or Arab Americans or Chaldeans.

Exhibit 2.4 Prevalence of Specific Types of Illicit Drug Use in the Lifetime and Past Month Among Public School Students in the Southeastern Region and the State: 2000/2001

	Lifet	Past Month		
Substance Used	Region	State	Region	State
Marijuana	23.1	24.0	13.3	12.6
Inhalants	14.0	13.6	3.5	3.9
Cocaine	3.7	3.3	+	1.1
LSD or Other Psychedelics	5.2	5.0	2.6	2.4
Speed or Amphetamines	4.7	4.9	+	1.7
Heroin	+	0.9	+	+
Tranquilizers	5.3	4.7	2.1	2.0
Barbiturates	3.3	2.7	+	1.2
Designer drugs ¹	5.5	5.0	+	1.8
Steroids	+	1.4	+	+

⁺ Estimate suppressed because of small prevalence (i.e., less than 0.1).

Source: Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey

2.3.2 Past-Month Other Drug Use

Approximately 17 percent of students in the Southeastern region reported using an illicit drug in the 30 days prior to the survey (**Exhibit 2.3**). Males were slightly more likely to report use than females (18% vs. 16%). More Caucasian students (18%) than non-Caucasian, non-African-American students (13%) were past month illicit drug users. There was a large difference in past month other drug use between 8th graders (13%) and 10th graders (28%), and another smaller increase among students in 12th grade (29%).

The overall prevalence of past month illicit drug use by students in the Southeastern region was the same as that of students in the state. Differences between demographic subgroups in the Southeastern region and the state were not large.

Marijuana was the most commonly used drug in the past month (13%). About 4 percent of students had used inhalants, 3 percent had used LSD or other psychedelics, and 2 percent had used tranquilizers. These percentages are similar to those statewide.

¹Includes GHB, ecstacy (X), or Ketamine (Special K).

2.4 Combinations of Substances Used

In addition to investigating individual substances used, we examined the prevalence of multiple substance use. **Exhibit 2.5** shows combination drug use for lifetime and past month. Please note that when referring to the "lifetime" columns the rows refer to lifetime use, and when referring to the "past month" columns the rows refer to past month use.

2.4.1 Lifetime Combination Drug Use

We found that, among substance users, the use of more than one substance was common. Most of the students who had smoked cigarettes in their lifetime also had used alcohol (91%), whereas 61 percent had smoked marijuana and 45 percent had used other illicit drugs. Among those who had used alcohol, 61 percent also had smoked cigarettes, 43 percent had smoked marijuana, and 37 percent had used other illicit drugs. Students who had ever smoked marijuana were likely to have used cigarettes (92%) alcohol (98%), or other illicit drugs (59%). Finally, among students who had ever used illicit drugs other than marijuana, 73 percent had smoked cigarettes, 88 percent had used alcohol, and 63 percent had smoked marijuana.

2.4.2 Past Month Combination Drug Use

As was the case with lifetime use, if students had used one substance in the past month they were fairly likely to have used another one too. Students who had smoked cigarettes in the past month had relatively high levels of past month alcohol (80%), marijuana (55%), and other illicit drug (30%) use. Among those who had used alcohol, 46 percent had smoked cigarettes, 36 percent had smoked marijuana, and 21 percent had used other illicit drugs. Students who had smoked marijuana in the past month were likely also to have used cigarettes (73%), alcohol (85%), and other illicit drugs (38%). Among past month other illicit drug users, past month cigarette use was 62 percent, alcohol use was 76 percent, and marijuana use was 60 percent.

2.5 Peer Perceptions of Use and Perceived Risk of Use

2.5.1 Peer Perceptions

To determine the effect of peers' opinions on students' substance use, respondents were asked about the chances that they would be seen as "cool" if they used cigarettes, alcohol, or marijuana. **Exhibit 2.6** illustrates that the majority of students in the Southeastern region reported that there was "some, little, or no chance" that using these substances would influence their peers' perceptions of them. There was a notable difference in substance use between students who thought using substances would make them appear "cooler" and those who did not. Specifically, those who thought substance use would enhance their image were more likely to

Exhibit 2.5 Combinations of Substances Used in the Lifetime and Past Month Among Michigan Public School Students in the Southeastern Region: 2000/2001

				Past I	Month Use			
	Cigarettes	Alcohol	Marijuana	Other Illicit Drugs	Cigarettes	Alcohol	Marijuana	Other Illicit Drugs ¹
Cigarettes	100.0	91.4	60.8	45.4	100.0	79.7	54.7	29.6
Alcohol	61.3	100.0	43.4	37.3	46.1	100.0	36.4	21.2
Marijuana	92.0	97.9	100.0	59.1	72.5	84.8	100.0	38.1
Other Illicit Drugs ¹	72.5	88.3	62.5	100.0	62.3	75.7	59.6	100.0

¹Includes inhalants, cocaine, LSD or other psychedelics, speed or amphetamines, heroin, tranquilizers, barbiturates, design drugs (GHB, ecstacy [X], or Ketamine [Special K]), and steroids.

Exhibit 2.6 Prevalence of Lifetime and Past Month Use of Cigarettes, Alcohol, and Marijuana Among Michigan Public School Students in the Southeastern Region, by Peer Perception of Use and the Perceived Risk of Use: 2000/2001

		Lifeti	me Use	Past Month Use			
	N	Cigarettes	Alcohol	Marijuana	Cigarettes	Alcohol	Marijuana
What are the chances you would be seen as cool if you:							
Smoked cigarettes							
very or pretty good chance	140	49.1	69.5	36.4	34.7	38.9	25.5
some, little, or no chance	1,808	33.9	51.4	22.0	16.8	30.4	12.3
Drank alcohol regularly ¹							
very or pretty good chance	303	53.4	77.5	38.6	31.4	51.9	22.5
some, little, or no chance	1,639	31.7	48.7	20.3	15.6	27.6	11.5
Smoked marijuana							
very or pretty good chance	249	59.6	77.0	48.5	36.3	50.9	32.6
some, little, or no chance	1,697	31.8	49.8	19.7	15.7	28.7	10.6
How much do you think people risk harming themselves (physically or in other ways) if they:							
Smoke cigarettes							
great risk	1,318	28.3	47.2	18.0	12.3	25.5	10.0
moderate risk	451	53.4	69.0	35.9	32.6	45.8	20.7
slight or no risk	160	46.9	61.2	36.2	31.9	45.1	24.0
Drink alcohol regularly ²							
great risk	870	24.3	38.7	13.3	10.2	18.3	6.8
moderate risk	609	40.6	61.1	27.3	21.0	38.8	15.1
slight or no risk	452	51.4	72.3	40.2	31.9	50.5	26.3
Smoke marijuana regularly							
great risk	1,269	22.5	41.0	8.6	7.9	19.8	2.6
moderate risk	360	57.5	73.1	45.7	35.1	52.5	26.0
slight or no risk	296	66.9	80.6	64.8	46.5	59.2	50.3

¹At least once or twice a month.

²One or two drinks nearly every day.

use alcohol, cigarettes, and marijuana. It is interesting to note that the association between peer opinions and substance use was not specific to a given substance. For example, students who reported that they would be seen as cool if they drank alcohol were more likely not only to drink alcohol, but also to smoke cigarettes and marijuana. This finding also applied to peer perceptions about alcohol and marijuana, and held true for both lifetime and past month substance use (where comparisons were possible).

2.5.2 Perceived Risk

Students were asked how much people risk harming themselves (physically or in other ways) if they smoke cigarettes, drink alcohol regularly, or smoke marijuana regularly. The findings are presented in **Exhibit 2.6**. In general, greater perceived risk was associated with less substance use. This finding applied to all substances. Again, the association was not substance-specific; greater perceived risk of any substance was related to less use of any other substance. Only a few exceptions to this pattern were observed; students who thought there was moderate risk associated with smoking cigarettes were somewhat more likely to have used cigarettes and alcohol in their lifetime and in the past month than were those who perceived slight or no risk. In addition, the likelihood of lifetime marijuana use was equal for those who perceived moderate versus slight or no risk associated with smoking cigarettes.

2.6 Delinquent Behavior

Exhibit 2.7 shows the past year prevalence by gender, race/ethnicity, and grade of five delinquent behaviors: being drunk or high at school, being suspended from school, stealing or attempting to steal a motor vehicle, selling illegal drugs, and having been arrested. Please note that for some demographic subgroups the prevalence of some behaviors is too low to yield reliable estimates.

Drunk or High at School. Overall, 14 percent of public school students in the Southeastern region reported having been drunk or high at school in the year prior to the survey. This behavior was more common among seniors (24%) and sophomores (22%) than among 8th graders (10%).

Suspended from School. Approximately 10 percent of students in the Southeastern region reported having been suspended from school in the year prior to the survey. Suspension was more common among males (13%) than females (7%), and more common among non-Caucasian, non-African-American students (15%) than among Caucasian students (9%). Students in the 8th grade (15%) were somewhat more likely to have been suspended than those in the 10th (11%) or 12th grade (12%).

2-1

Exhibit 2.7 Prevalence of Delinquent Behavior in the Past Year Among Public School Students in the Southeastern Region: 2000/2001

	Gender		R	Race/Ethnicity			Grade			
	Male	Female	Caucasian	African American	Other Races ¹	6	8	10	12	Total
Drunk or high at school	13.9	12.9	14.1	+	+	+	9.5	22.4	24.1	13.5
Suspended from school	13.3	7.3	8.7	+	14.6	+	14.5	11.0	12.3	10.2
Stole or tried to steal a motor vehicle	+	+	+	+	+	+	+	+	+	+
Sold illegal drugs	8.1	3.2	5.3	+	+	+	+	8.9	10.5	5.6
Been arrested	5.8	+	3.8	+	+	+	4.6	6.1	6.7	4.3

⁺ Estimate suppressed because of low precision.

¹Includes Hispanics or Latinos, American Indians or Alaskan Natives, Asians, Native Hawaiians or other Pacific Islanders, or Arab Americans or Chaldeans.

Sold or Tried to Steal a Motor Vehicle. Very few students reported actual or attempted theft of a vehicle. As a result, no reliable prevalence estimates are available.

Sold Illegal Drugs. Overall, 6 percent of students in the Southeastern region reported that they had sold illegal drugs in the year prior to the survey. This behavior was more common among males (8%) than females (3%), and slightly more common among seniors (11%) than sophomores (9%).

Been Arrested. About 4 percent of Southeastern region's students had been arrested in the past year. Estimates for many demographic subgroups were suppressed due to low prevalence.

2.7 Summary

The most commonly used substances among public school students in the Southeastern region were alcohol, cigarettes, and marijuana. The majority (53%) had used alcohol in their lifetime, and almost one-third had used it in the month before the survey. Recent tobacco use was reported by 19 percent of students and recent marijuana use by 13 percent.

Two demographic differences consistently emerged. First, Caucasian students were more likely than non-Caucasian, non-African-American students to have used substances. Another striking demographic factor associated with prevalence of use was a student's grade in school. The prevalence of substance use generally increased as students' grade in school increased.

When compared to students across the state, students in the Southeastern region reported generally similar levels of substance use.

Among students who used substances, multiple substance use was fairly common. This was true for both lifetime and past month use.

Most students reported that using cigarettes, alcohol, or marijuana was unlikely to make them appear "cooler" to their peers. Those who did think substance use would enhance their image were more likely to use substances. It is notable that the association between peer opinions and substance use was not specific to a given substance; instead, students who reported that they would be seen as cool if they used one substance were more likely to report use of other substances too.

Moving beyond substance use, the prevalence of some delinquent behaviors in the past year also was assessed. Approximately 14 percent of students in the Southeastern region reported

having been drunk or high at school, 10 percent reported having been suspended from school, 6 percent reported having sold illegal drugs, and 4 percent had been arrested.

Overall, the data presented in this chapter provide basic prevalence information about alcohol and other drug use and delinquent behaviors for public school students in the Southeastern region of Michigan and offer insights into the groups most likely to experience substance use problems. When considering the information in this chapter, the limitations should be kept in mind. As noted previously, information for some demographic subgroups is unavailable due to low precision in the data or low prevalence of the behavior among those groups. In addition, the results are based on students' self-reports, and may not reflect their substance use with complete accuracy. Another important consideration involves the implications of any data collected in a school setting; students problematically involved with substance use may be less likely to attend school, and as a result considerable caution should be used when extrapolating the results to the entire adolescent population in the Southeastern region of Michigan.

3. RISK AND PROTECTIVE FACTORS FOR ADOLESCENT HEALTH BEHAVIORS AMONG MICHIGAN PUBLIC SCHOOL STUDENTS IN THE SOUTHEASTERN REGION

3.1 Background

The risk and protective factor framework has assumed a prominent role in substance abuse prevention research and practice over the past two decades. In 1979, Dr.'s J. David Hawkins and Richard F. Catalano, of the Social Development Research Group (SDRG), began developing the Social Development Strategy which has identified a set of risk and protective factors that influence behaviors.

Risk factors are characteristics of individuals or their environment that, when present, increase the likelihood that individuals will develop a disorder (e.g., use drugs) (Garmezy, 1983). Protective factors are characteristics that may reduce one's susceptibility to risk or prevent the initial occurrence of a risk factor (Coie et al., 1993). SDRG research has shown that certain conditions in a child's community, school, family and peer environments, as well as physiological and personality traits of the child, are common risk factors for problems such as drug abuse, delinquency, teenage pregnancy, and school failure. Because risk factors are precursors to substance abuse behaviors, reducing risk factors or protecting against them can prevent the occurrence of such behaviors. The Social Development Strategy emphasizes two key protective factors, including (1) bonding to prosocial family, school and peers, and (2) clear standards or norms for behavior. Three processes promote these protective factors: (1) opportunities for involvement in productive prosocial roles, (2) skills to be successfully involved in these roles, and (3) consistent systems of recognition and reinforcement for prosocial involvement. These factors protect against the development of conduct problems, school misbehavior, truancy, and drug abuse. Therefore, risk-focused approaches to substance abuse prevention seek to reduce risk factors for substance abuse and enhance protective factors.

The risk and protective factors identified above are found at multiple levels, including the individual, the family, the peer group, the school, and the community (Hawkins, Catalano, & Miller, 1992; Kandel, Simcha-Fagan, & Davies, 1986; Newcomb & Felix-Ortiz, 1992). Persons exposed to multiple risk factors, and across multiple levels, are more likely to engage in substance use than those with fewer risk factors and/or levels. In addition, as mentioned above, many undesirable behavioral outcomes, such as substance use, delinquency, teen pregnancy, and school failure, share common risk factors. Some risk factors, such as demographic characteristics, cannot be changed, but can help to identify high-risk groups. Identification of specific populations in which risk factors are high and protective factors are low allows identification of prevention needs and facilitates targeting programming toward the reduction of

risk factors and the enhancement of protective factors (Hawkins, Arthur, & Catalano, 1997). Risk and protective factors which were asked about on the survey (see appendix) are as follows.

Community Factors:

- ! Low neighborhood attachment (Items 95, 97,107)
- ! Community disorganization (Items 99[a-d], 105)
- ! **Transitions and mobility** (Items 101, 104, 106, 108,100)
- Laws and norms favorable toward drug use (Items 86, 88, 90, 93[a-c], 94[a-d])
- ! **Perceived availability of drugs and handguns** (Items 84, 85, 87, 89, 91)
- ! **Opportunities for conventional involvement** (Items 103[a-e])
- ! **Opportunities for positive interaction** (Item 98)
- ! Rewards for conventional involvement (Items 96, 102, 109)

School Factors:

- ! Academic failure (Items 13, 23)
- ! Little commitment to school (Items 25, 26, 27, 28[a-c])
- ! School absenteeism (Items 14[a-c])
- ! Opportunities for positive involvement (Items 15, 16, 18, 19, 25)
- ! Rewards for conventional involvement (Items 17, 20, 21, 22)

Family Factors:

- **Poor family management** (Items 111, 112, 113, 115, 124, 125)
- **Poor Discipline** (Items 114, 116, 117)
- ! Parental attitudes favorable toward drug use (Items 110[a-c])
- ! Parental attitudes favorable toward antisocial behavior (Items 110[d-f])
- ! **Attachment** (Items 120, 121)

- ! Opportunities for positive involvement (Items 119, 122, 123)
- ! Rewards for conventional involvement (Items 118, 126)

Peer-Individual Factors:

- ! **Rebelliousness** (Items 32, 35, 47)
- ! Early initiation of substance use (Items 30[a-d])
- ! **Early initiation of problem behavior** (Items 30[e-i])
- ! **Impulsiveness** (Items 48, 49, 50, 51)
- ! **Antisocial behavior** (Items 40[a-h])
- ! Attitudes favorable toward antisocial behavior (Items 31[a-e])
- ! Attitudes favorable toward drug use (Items 31[f-i])
- ! **Perceived risks of drug use** (Items 52[a-d])
- ! **Interaction with antisocial peers** (Items 29[e-k])
- ! Friends' use of drugs (Items 29[a-d])
- ! Sensation seeking (Items 37[a-c])
- ! Rewards for antisocial involvement (Items 41[a-d])
- ! **Social skills** (Items 42, 43, 44, 45)
- ! Belief in the moral order (Items 33, 34, 36, 46)

3.2 Regional Findings

3.2.1 Attitudes Favorable Toward Drug Use

Nearly all public school students in the Southeastern region reported that they thought it was very wrong or wrong for someone their age to take a handgun to school or to use illegal drugs other than marijuana (**Exhibit 3.1**). Most reported that it was very wrong or wrong for someone their age to attack someone (92%), steal anything worth more than \$5 (87%), smoke marijuana (82%), smoke cigarettes (73%), cut school (72%), drink alcohol regularly (71%), or pick a fight with someone (68%). Some students, however, reported that it was not wrong at all or only a little bit wrong for someone their age to engage in such activities.

Exhibit 3.1 Students' Attitudes About Substance Use and Other Behaviors Among Public School Students in the Southeastern Region: 2000/2001

	Percent			
	Very Wrong	Wrong	A Little Bit Wrong	Not Wrong at All
How wrong do you think it is for someone your age to:				
smoke cigarettes?	52.7	20.0	16.3	11.0
drink alcohol regularly?	49.4	21.6	19.3	9.7
smoke marijuana?	65.9	15.6	9.9	8.5
use other illegal drugs?	87.8	7.4	2.6	2.2
steal anything worth more than \$5?	48.1	38.9	11.4	+
pick a fight with someone?	25.8	42.1	26.7	5.4
cut school?	42.2	30.2	20.4	7.2
take a handgun to school?	92.8	5.5	+	+
attack someone to seriously hurt them?	68.7	22.9	6.1	2.3

⁺ Data suppressed due to low precision.

Source: Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey

Students also were asked how their parents felt about a subset of these behaviors. **Exhibit 3.2** shows that most students reported that their parents overwhelmingly thought each of these behaviors was wrong or very wrong. Most students reported that their parents felt it was very wrong or wrong for them to steal anything worth more than \$5 (97%), smoke marijuana (97%), smoke cigarettes (91%), pick a fight with someone (89%), or drink alcohol (88%).

3.2.2 Perceived Availability of Drugs

Students were asked how easy it would be for them to get alcohol, tobacco, and other drugs if they wanted to get some. **Exhibit 3.3** shows that a minority of public school students in the Southeastern region thought getting marijuana or other illegal drugs would be very easy or sort of easy. Other substances, however, were reportedly less difficult to obtain. About 56 percent of students thought it would be very easy or sort of easy for them to get cigarettes, and 52 percent thought it would be very easy or sort of easy to get alcohol.

Students also were asked about the likelihood of an adolescent in their neighborhood getting caught by the police for using various substances. About 72 percent of Southeastern region students believed it was unlikely that an adolescent in their neighborhood would get caught if they smoked cigarettes. Students also thought it was unlikely that an adolescent would get caught for drinking alcohol (69%) or smoking marijuana (64%) (**Exhibit 3.4**).

Exhibit 3.2 Parental Attitudes Towards Substance Use and Other Behaviors Among School Students in the Southeastern Region: 2000/2001

	Percent			
	Very Wrong	Wrong	A Little Bit Wrong	Not Wrong at All
How wrong do your parents feel it would be for you to:				
smoke cigarettes?	74.8	15.9	6.1	3.2
drink alcohol?	70.3	17.2	9.4	3.1
smoke marijuana?	89.2	7.3	2.1	+
steal anything worth more than \$5?	85.3	11.2	2.7	+
pick a fight with someone?	63.1	26.1	9.0	+

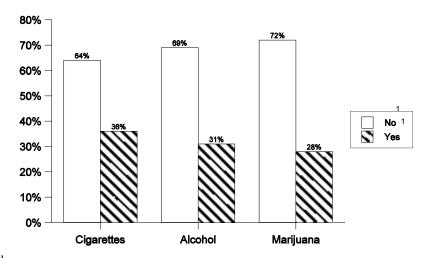
⁺ Data suppressed due to low precision.

Source: Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey.

Exhibit 3.3 Perceived Ease of Getting Tobacco, Alcohol, and Illicit Drugs Among Public School Students in the Southeastern Region: 2000/2001

	Percent				
	Very Hard	Sort of Hard	Sort of Easy	Very Easy	
If you wanted to get, how easy would it be for you to get some?					
beer, wine, or hard liquor	30.9	17.6	25.5	26.0	
cigarettes	29.6	14.5	15.9	40.0	
marijuana	44.1	8.9	16.9	30.2	
other illegal drugs	58.4	20.0	14.0	7.6	

Exhibit 3.4 Perceived Likelihood of Getting Caught by the Police for Substance Use Among Public School Students in the Southeastern Region: 2000/2001



¹Students were asked

to select one of the four response options: *NO!*, *no*, *yes*, *and YES!*. For this report, the response options of *NO!* and *no* were collapsed into No; *YES!* and *yes* were collapsed into Yes.

Source: Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey.

3.2.3 Perceived Risks of Drug Use

Even though many students thought it was fairly easy to get substances and unlikely that they would get caught for using alcohol, tobacco, or other drugs, many felt that substance use was dangerous. **Exhibit 3.5** indicates that more than half felt that people are at great risk for harming themselves physically or in other ways if they smoke one or more packs of cigarettes per day (71%) or smoke marijuana regularly (68%). Only 48 percent thought drinking alcohol nearly every day was a great risk, and only 30 percent thought there was great risk associated with smoking marijuana once or twice.

3.2.4 Friends' Use of Drugs

Students were asked to think about their four best friends (the friends they felt closest to) and indicate how many had used alcohol, tobacco, or other drugs in the past year (**Exhibit 3.6**). A majority of students reported that none of their best or closest friends used cigarettes, marijuana, or other illegal drugs in the past year. Approximately 54 percent had 1 or more best or close friends who had tried alcohol when their parents didn't know about it.

Exhibit 3.5 Perceived Risks of Substance Use Among Public School Students in the Southeastern Region: 2000/2001

	Percent			
	No Risk	Slight Risk	Moderate Risk	Great Risk
How much do you think people risk harming themselves (physically or in other ways) if they:				
Smoke one or more packs of cigarettes per day?	2.9	4.9	21.1	71.1
Try marijuana once or twice?	19.5	25.6	25.4	29.5
Smoke marijuana regularly?	5.8	8.4	17.6	68.3
Take one or two drinks of an alcoholic beverage nearly every day?	6.9	14.3	30.7	48.2

Source: Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey.

Exhibit 3.6 Friends' Substance Use Among Public School Students in the Southeastern Region: 2000/2001

			Percent		
	None	1	2	3	4
Think of your four best friends (the friends you feel closest to). In the past year (12 months), how many of your best friends have:					
Smoked cigarettes?	55.8	12.8	11.5	7.1	12.7
Tried alcohol when parents didn't know about it?	46.1	10.5	8.4	8.9	26.1
Used marijuana?	63.5	10.7	8.2	5.3	12.3
Used LSD, cocaine, amphetamines, or other illegal drugs?	86.4	6.6	3.3	+	2.6

⁺ Data suppressed due to low precision.

3.2.5 Opportunities and Rewards for Positive School, Community, and Family Involvement

Students were asked about opportunities and rewards for positive school, community, and family involvement. **Exhibit 3.7** shows that most students reported that there are a lot of chances for students to get involved in school sports, clubs, and other activities outside of class (91%), they have lots of chances to be part of class discussions/activities (83%), teachers ask them to work on school projects (74%), there are lots of chances for students to talk with a teacher one-on-one (73%), and teachers tell them when they are doing a good job (66%). Only 49 percent, however, reported that they have lots of chances to help decide things like class activities and rules, 48 percent reported that their teachers praise them when they work hard in school, and 41 percent reported that the school lets their parents know when they have done something well.

Exhibit 3.7 Opportunities and Rewards for School Involvement Among Public School Students in the Southeastern Region: 2000/2001

	Per	cent
	No ¹	Yes ¹
In my school, students have lots of chances to help decide things like class activities and rules.	51.1	48.9
Teachers ask me to work on classroom projects.	26.0	74.0
My teacher(s) notices when I am doing a good job and lets me know about it.	33.8	66.2
There are a lot of chances for students in my school to get involved in sports, clubs, and other schools activities outside of class.	8.9	91.1
There are lots of chances for students in my school to talk with a teacher one-on-one.	27.4	72.6
The school lets my parents know when I have done something well.	59.2	40.8
My teachers praise me when I work hard in school.	51.6	48.4
I have lots of chances to be part of class discussions/activities.	16.8	83.3

¹Students were asked to select one of the four response options: *NO!*, *no*, *yes*, *and YES!*. For this report, the response options of *NO!* and *no* were collapsed into No; *YES!* and *yes* were collapsed into Yes.

Students also were asked about the kinds of activities available in their community for people their age and about interaction between students and the community. **Exhibit 3.8** shows that

- ! students reported that the most common community activity is sports teams (95%), followed by scouting (81%), boys and girls clubs (76%), service clubs (65%), and 4-H clubs (51%);
- ! 58 percent of students said that there are people in their neighborhood who encourage them to do their best, 53 percent said that there are people in their neighborhood who are proud of them when they do something well, and 44 percent said there are a lot of adults in their neighborhood they could talk to about something important; and
- ! 33 percent of students said their neighbors notice when they do a good job and let them know about it.

Exhibit 3.8 Community Involvement and Interaction Among Public School Students in the Southeastern Region: 2000/2001

	Per	cent
	No	Yes
Which of the following activities for people your age are available in your community?		
Sports teams	5.4	94.6
Scouting	19.5	80.5
Boys and girls clubs	23.9	76.1
4-H clubs	49.5	50.5
Service clubs	35.1	64.9
In my neighborhood, or the area around where I live:1		
There are a lot of adults I could talk to about something important.	56.1	43.9
There are people who are proud of me when I do something well.	46.7	53.3
There are people who encourage me to do my best.	41.8	58.2
My neighbors notice when I am doing a good job and let me know		
about it.1	67.0	33.0

¹Students were asked to select one of the four response options: *NO!*, *no*, *yes*, *and YES!*. For this report, the response options of *NO!* and *no* were collapsed into No; *YES!* and *yes* were collapsed into Yes.

Finally, students were asked about rewards and opportunities for family involvement. Approximately 42 percent of students reported that their parents notice all the time when they are doing a good job and let them know about it, and 31 percent reported that their parents do so often. Thirty-eight percent of students also said that their parents tell them all the time that they are proud of them for something they have done, and another 32 percent said that their parents do so often (**Exhibit 3.9**). **Exhibit 3.10** shows that 80 percent of students said they could ask their parents for help with a personal problem, 75 percent of students reported that their parents give them lots of chances to do fun things with them, and 70 percent are involved in family decisions affecting them.

Exhibit 3.9 Rewards for Family Involvement Among Public School Students in the Southeastern Region: 2000/2001

	Percent			
	Never or almost never	Sometimes	Often	All the time
My parents notice when I am doing a good job and let me know about it.	5.5	21.8	30.9	41.8
How often do your parents tell you that they are proud of you for something you have done?	7.0	23.1	31.9	38.1

Source: Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey.

Exhibit 3.10 Opportunities for Family Involvement Among Public School Students in the Southeastern Region: 2000/2001

	Percent	
	No ¹	Yes ¹
My parents ask me what I think before most family decisions affecting me are made.	29.7	70.3
If I had a personal problem, I could ask my mom or dad for help.	20.5	79.5
My parents give me lots of chances to do fun things with them.	24.7	75.3

¹Students were asked to select one of the four response options: *NO!*, *no*, *yes*, *and YES!*. For this report, the response options of *NO!* and *no* were collapsed into No; *YES!* and *yes* were collapsed into Yes.

3.2.6 Regional and Statewide Rankings of Risk and Protective Factors

Exhibit 3.11 shows rankings of ten risk factors and nine protective factors for the Southeastern region, as well as the percentage of students who are considered "at risk" or "resilient" for each. The most common risk factor for students in the Southeastern region was perceived availability of drugs and handguns, on which 43 percent of students were at risk. Other relatively common risk factors for Southeastern region students included little commitment to school (30%), poor family discipline (26%), and sensation seeking (23%). Fewer than one in five was at risk on friends' substance use (19%), academic failure (18%), rebelliousness (17%), laws and norms favorable toward substance use (16%), low neighborhood attachment (15%), and attitudes favorable toward substance use (13%). An examination of protective factors shows that more than three quarters of Southeastern region students were resilient on opportunities for positive school involvement, family attachment, opportunities for conventional community involvement, and opportunities for positive family involvement. Nearly three quarters were resilient on social skills and belief in the moral order. Two thirds of Southeastern region's students were resilient on rewards for conventional involvement with family, and just over half on rewards for conventional involvement in the community or school.

Statewide rankings and percentages are presented in **Exhibit 3.12**. Across the state, the most common risk factor was the perceived availability of drugs and handguns. More than four in ten students were at risk on this factor. Little commitment to school, poor family discipline, and sensation seeking were risk factors for about a quarter of students statewide. About one in five students were at risk on the factors academic failure, rebelliousness, friend's substance use, laws and norms favorable toward substance use, and low neighborhood attachment. The tenth most common risk factor for students across the state was perceived risks of substance use (14%). In terms of protective factors, many students across the state were resilient on opportunities for positive involvement at school (83%), attachment to their family (79%), and opportunities for positive family involvement in their family (78%). About three quarters were resilient on social skills, belief in the moral order, and opportunities of conventional involvement in the community. Two-thirds were resilient on rewards for conventional family involvement, and more than half on rewards for conventional community and school involvement.

Exhibit 3.11 Rank of Risk and Protective Factors Among Michigan Public School Students: 2000/2001

	Southeastern Region							
Rank	Risk Factor	Percentage of Students at Risk	Rank	Protective Factor	Percentage of Students Resilient			
1	Perceived availability of drugs and handguns	42.8%	1	Opportunities for positive involvement (school)	82.4%			
2	Little commitment to school	30.0	2	Attachment (family)	80.2			
3	Poor discipline (family)	25.5	3	Opportunities for conventional involvement (community)	79.9			
4	Sensation seeking	22.8	4	Opportunities for positive involvement (family)	77.8			
5	Friends' substance use	18.9	5	Social skills	74.4			
6	Academic failure	18.0	6	Belief in the moral order	73.1			
7	Rebelliousness	17.4	7	Rewards for conventional involvement (family)	67.8			
8	Laws and norms favorable toward substance use	15.8	8	Rewards for conventional involvement (community)	53.3			
9	Low neighborhood attachment	14.6	9	Rewards for conventional involvement (school)	51.3			
10	Attitudes favorable toward substance use	12.8						

Exhibit 3.12 Rank of Risk and Protective Factors Among Michigan Public School Students: 2000/2001

Statewide Percentage **Percentage** of Students of Students Rank **Risk Factor** at Risk Rank **Protective Factor** Resilient 1 Perceived availability of drugs & handguns 42.5% Opportunities for positive involvement (school) 82.5% 1 Little commitment to school Attachment (family) 79.3 2 2 26.6 Poor discipline (family) Opportunities for positive involvement (family) 3 3 77.7 25.9 4 Sensation seeking 22.9 4 Social skills 74.4 5 Academic failure Belief in the moral order 20.7 5 73.0 Rebelliousness 72.1 6 19.3 6 Opportunities for conventional involvement (community) 7 Friends' substance use 18.7 Rewards for conventional involvement (family) 67.0 7 8 Laws and norms favorable toward 8 Rewards for conventional involvement 53.5 17.6 substance use (community) 9 Low neighborhood attachment 16.7 9 Rewards for conventional involvement (school) 52.7 10 Perceived risks of substance use 13.7

4. SUMMARY AND IMPLICATIONS

Findings from this study have implications for substance abuse prevention policies, planning, and program development in the Southeastern region of Michigan. This study was designed to identify adolescent populations in greatest need of substance abuse prevention so that prevention programs and services can target risk and protective factors for substance abuse. Even though some of the risk factors examined in this study (e.g., grade in school, gender, and race/ethnicity) are impossible to alter, they do serve to identify those students with elevated risk for substance use. Other risk factors can be modified. Modifiable risk factors include academic performance, antisocial behaviors, student perceptions, and availability of alcohol, tobacco, and other drugs. The same is true for protective factors; some are amenable to change and others can serve as markers of groups most at risk. Highlights of the findings of this study and implications regarding programming are provided in the following sections.

4.1 Summary

4.1.1 Substance Use

When compared to students across the state, students in the Southeastern region reported generally similar levels of substance use.

- ! Nearly one third of public school students in the Southeastern region reported recent alcohol use.
- ! Close to one in five students reported recent tobacco use.
- ! About 17 percent reported recent marijuana use.

Substance use varied across some demographic characteristics.

- ! Both lifetime and past month substance use were higher among Caucasian students than among non-Caucasian, non-African-American students.
- Higher grade levels were associated with an increased prevalence of substance use. For example, the prevalence of past month alcohol use was 23 percent among 8thgraders, 47 percent among 10th graders, and 56 percent among 12th graders.

4.1.2 Delinquent Behaviors

Males were more likely than females to exhibit some, but not all, delinquent behaviors.

- ! About 14 percent of students in the Southeastern region reported having been drunk or high at school in the year prior to the survey. This behavior was more common among males than females, and more common among seniors and sophomores than among 8th graders.
- 1.6 One in ten students had been suspended from school. More males than females had been suspended. In addition, suspension was more common among Caucasian students than among non-Caucasian, non-African-American students.
- 1.7 Theft or attempted theft of a motor vehicle was rare.
- 1.8 Six percent of students had sold illegal drugs. Although the differences were relatively minor, more males than females and more seniors than sophomores reported this behavior.
- 1.9 About four percent of students had been arrested in the year before the survey.

4.1.3 Risk and Protective Factors

One way to reduce students' substance use and delinquent behavior is to identify factors that make students more or less likely to participate in such behaviors and then reduce risk factors while increasing protective factors. National research has identified a set of risk and protective factors that have been shown to be related to these undesirable behaviors (Hawkins et al., 1992, 1997). The more risk factors a student has, the more likely that student is to have used substances in the past month. The more protective factors present, the less likely that student is to have used substances in the past month.

The following findings report on the status of risk and protective factors among students in the Southeastern region.

! Students' Attitudes Toward Drug Use and Antisocial Behavior. The majority of students reported that it was "very wrong" or "wrong" for someone their age to engage in substance use and delinquent behavior. For example, over 90 percent thought it was very wrong or wrong for someone their age to take a handgun to school, use illegal drugs other than marijuana, or attack someone.

- ! Parents' Attitudes Toward Drug Use and Antisocial Behavior.

 Students overwhelmingly reported that their parents thought substance use and delinquent behavior were wrong or very wrong for adolescents.
- ! **Perceived Availability of Drugs.** Although students reported that marijuana or other illicit drugs would be difficult to obtain, they thought it would be easier to get alcohol or cigarettes. Students also reported that it was unlikely that an adolescent in their neighborhood would get caught by the police if they smoked cigarettes or marijuana, or drank alcohol.
- ! **Perceived Risks of Drug Use.** Perceived risk of physical or other harm was fairly high for heavy smoking and regular marijuana use. Fewer students, however, thought using alcohol regularly or smoking marijuana once or twice put them at great risk.
- ! **Friends' Use of Drugs.** A majority of students reported that none of their closest friends had used cigarettes or marijuana or other illegal drugs in the past year. More than half, however, indicated that at least one close friend had tried alcohol when their parents didn't know about it.
- ! Opportunities and Rewards for Positive School Involvement. Many students in the Southeastern region reported that there are a lot of opportunities to be involved and rewarded at school. Fewer than half, however, said that they can help decide class activities and rules, that their teachers praise them when they work hard, or that the school notifies their parents when they have done something well.
- ! Opportunities and Rewards for Positive Community Involvement.
 Opportunities to participate in community activities such as sports,
 scouting, and service clubs were commonly reported by Southeastern
 region students. More than half of students reported that their neighbors
 encourage them and are proud of them when they do something well, but
 it was less common to have neighborhood adults to confide in, or
 neighbors that notice and are proud when they do a good job.
- ! Opportunities and Rewards for Positive Family Involvement. About seven in ten students in the Southeastern region reported that their parents always or often notice when they are doing a good job and let them know about it, and that their parents always or often tell them that they are proud of them for something they have done. Most students indicated that they could ask their parents for help with a personal problem, that their parents give them the opportunity to do fun things with them, and that they are involved in family decisions affecting them.

4.2 Limitations of the Data

It is important to note again the limitations of the data gathered in the Michigan Substance Abuse Risk and Protective Factors 2000/2001 Student Survey. The primary limitation is the exclusive focus on adolescents in school. With such a focus, adolescent subpopulations with concentrated numbers of problem users may be missed. These subpopulations include school dropouts, homeless and runaway students, and students who have been incarcerated or institutionalized—all of whom are likely to be undercounted by school surveys.

The subpopulation of most concern not captured by school-based surveys is school dropouts. There has been some controversy surrounding the belief that dropouts have the greatest drug problems, but most of the research to date has shown that dropouts are more likely to be substance users than those who remain in school. Mensch and Kandel (1988) found that dropouts were more likely than graduates to use cigarettes and illicit drugs. An unpublished analysis of the adolescent subsample of the 1991 National Household Survey on Drug Abuse (NHSDA) also showed that 16- and 17-year-old dropouts were significantly more likely than those currently enrolled to use alcohol, cigarettes, marijuana, cocaine, and any illicit drugs (including marijuana and cocaine). Published studies have also shown that drug use often precedes dropping out of school (Friedman, Glickman, & Utada, 1985; Mensch & Kandel, 1988), but drug use has not been proven to be a definitive cause of dropping out of school. Nevertheless, it is reasonable to assume that some of the problem users who are *at risk* for dropping out but have not yet done so will be captured in this survey; results, however, can only be generalized to the population of adolescents who are attending school.

The second important limitation is that the questionnaire measures self-reported behavior. Caution should be exercised in interpreting these data because of respondents' tendencies to underreport undesirable behaviors and to have difficulty remembering complicated information, such as the age at which they first used a substance (Bailey, Flewelling, & Rachal, 1992).

Finally, reliable estimates for some demographic subgroups consistently were unavailable for the Southeastern region because the groups were small relative to the entire student population or because the use or behavior in question was very low in these groups. Although data from these groups were used to calculate other estimates, such as regional totals and gender estimates, it is not possible to compare them with other demographic subgroups.

REFERENCES

- Bailey, S. L., Flewelling, R. L., & Rachal, J. V. (1992). The characterization of inconsistencies in self-reports of alcohol and marijuana use in a longitudinal study of adolescents. *Journal of Studies on Alcohol*, *53*, 636-647.
- Coie, J. D., Watt, N. F., West, S.G., Hawkins, J. D., Asarnow, J. R., Markman, H. J., Ramey, S. L., Shure, M. B., & Long, B. (1993). The science of prevention. A conceptual framework and some directions for a national research program. *American Psychologist*, 48(10):1013-1022.
- Friedman, A. S., Glickman, N., & Utada, A. (1985). Does drug and alcohol use lead to failure to graduate from high school? *Journal of Drug Education*, 15, 353-364.
- Hawkins, J. D., Arthur, M. W., & Catalano, R. F. (1997). Six state consortium for prevention needs assessment studies: Alcohol and other drugs (final report for the Center for Substance Abuse Prevention). Seattle, WA: University of Washington, Social Development Research Group.
- Hawkins, J. D., Catalano, R. F., & Miller, J. Y. (1992). Risk and protective factors for alcohol and other drug problems in adolescence and early adulthood: Implications for substance abuse prevention. *Psychological Bulletin*, *112*, 64-105.
- Kandel, D. B., Simcha-Fagan, O., & Davies, M. (1986). Risk factors for delinquency and illicit drug use from adolescence to young adulthood. *Journal of Drug Issues*, *16*(1), 67-90.
- Mensch, B. S., & Kandel, D. B. (1988). Dropping out of high school and drug involvement. *Sociology of Education*, *61*, 95-113.
- Newcomb, M. D., & Felix-Ortiz, M. (1992). Multiple protective and risk factors for drug use and abuse: Cross-sectional and prospective findings. *Journal of Personality and Social Psychology*, 63, 280-296.

APPENDIX A Data Collection Materials